

HUBER+SUHNER® DATA SHEET

Coaxial Cable: K_02232_D-01



Description

PTFE - 50 Ohm - double screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Strand-07	0.54 mm
Dielectric	PTFE		1.55 mm
Outer conductor	Copper, Silver plated	Braid, 95 %	2 mm
Outer conductor	Copper, Silver plated	Braid, 93 %	2.5 mm
Jacket	PVC (UL)	RAL 9005 - bk	3.2 mm +/- 0.1
Print	HUBER+SUHNER K 02232 D-01 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	5	GHz
Capacitance	97	pF/m
Velocity of signal propagation	69	%
Signal delay	4.86	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M Ω m
Max. operating voltage	0.85	kV _{rms} (at sea level)
Test voltage	1.7	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	2.3	kg/100 m
Min. bending radius	static	10 mm
	repeated (for max. 50 bendings)	30 mm
	dynamic	48 mm

Environmental Data

Temperature range	-35 °C... + 105 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-1, UL 1581 § 1080 (VW-1)
2002/95/EC (RoHS)	compliant

Ordering Information

Order as K_02232_D-01

Additional Information

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Cable group U4 2 mm / 50 Ohm

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Rev.: I

Matrix **Attenuation** [formula: $(a \cdot f^{0.5} + b \cdot f)$] **and Power CW** [formula: $(p \cdot f^{0.5})$]

Coefficients:

a=	0.7865	b=	0.121	f _{max.} =	5	p _{at} 1GHz =	154
	Frequency		Nom. attenuation		Nom. attenuation		Max. CW power
	(GHz)		(dB / m)		(dB / ft)		(watt)
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.3		0.47		0.143		281
	0.5		0.62		0.189		218
	0.8		0.80		0.244		172
	1.0		0.91		0.277		154
	1.3		1.05		0.320		135
	1.5		1.14		0.347		126
	1.8		1.27		0.387		115
	2.0		1.35		0.411		109
	2.3		1.47		0.448		102
	2.5		1.55		0.472		97
	2.8		1.65		0.503		92
	3.0		1.73		0.527		89
	3.3		1.83		0.558		85
	3.5		1.89		0.576		82
	3.8		1.99		0.607		79
	4.0		2.06		0.628		77
	4.3		2.15		0.655		74
	4.5		2.21		0.674		73
	4.8		2.30		0.701		70
	5.0		2.36		0.719		69

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

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